

In the Claims

The following Listing of Claims replaces all prior versions in the application:

LISTING OF CLAIMS

1. (Currently amended) A wireless networking device operating within a network protocol in which a reservation is made for transmission of data to one or more other wireless network devices, the wireless networking device comprising:

a dynamic reservation determination module, the module supplying a reservation parameter associated with a reservation of a certain length for transmission of data from the wireless networking device to at least one of the one or more wireless network devices by way of a direct communication channel between the wireless networking device and the at least one of the one or more wireless network devices, the transmission of data corresponding to multiple separate transmissions within the certain length, the dynamic reservation module selectively changing the reservation parameter based on the results of prior transmissions of data along the same direct communication channel.

2. (Original) The device of claim 1, wherein the dynamic reservation determination module determines if a last transmission reservation was oversufficient, and if the last transmission was oversufficient, decreases the reservation.

3. (Original) The device of claim 2 wherein the dynamic reservation determination module decreases the reservation by a predefined amount.

4. (Original) The device of claim 3 wherein the dynamic reservation determination module decreases the reservation by a predefined amount of time.
5. (Original) The device of claim 3 wherein the dynamic reservation determination module decreases the reservation by an amount associated with a predefined amount of data.
6. (Original) The device of claim 2 wherein the dynamic reservation determination module decreases the reservation by a computed amount.
7. (Original) The device of claim 6 wherein the computed amount is obtained through filtering.
8. (Original) The device of claim 1 wherein the first reservation is based on a predefined default value.
9. (Original) The device of claim 1 wherein the first reservation is based on a value determined by prior operation.
10. (Original) The device of claim 1, wherein the dynamic reservation determination module determines if a last transmission reservation was insufficient, and if the last transmission reservation was insufficient, increases the reservation.

11. (Original) The device of claim 10 wherein the dynamic reservation determination module increases the reservation by a predefined amount.
12. (Original) The device of claim 11 wherein the dynamic reservation determination module increases the reservation time by a predefined amount.
13. (Original) The device of claim 11 wherein the dynamic reservation determination module increases the reservation time by a time associated with a predefined amount of data.
14. (Original) The device of claim 10 wherein the dynamic reservation determination module increases the reservation by a computed amount.
15. (Original) The device of claim 14 wherein the computed amount is obtained through filtering.
16. (Currently amended) A wireless networking device operating within a network protocol in which a reservation is made for transmission of data with a dynamically updateable reservation parameter, the wireless networking device comprising:

a utilization module, the utilization module determining the efficiency characteristics of the reservation parameter ~~[[-]]~~, and initiating a signal to alter the reservation parameter.

wherein the reservation parameter relates to the transmission of data from the wireless networking device to at least one other wireless network device by way of a direct communication channel between the wireless networking device and the at least one other wireless network device, and wherein said altering is based on a prior transmission of data along the same direct communication channel.

17. (Currently amended) A wireless networking device operating within a network protocol in which a reservation is made for transmission of data, the wireless networking device comprising:

a utilization module, the utilization module determining the efficiency characteristics of a the reservation, and initiating a signal associated with the determined efficiency; and

a dynamic reservation determination module, communicatively coupled to the utilization module, that supplies a reservation parameter for making a reservation of a certain length, the dynamic reservation module operable to alter the reservation parameter in response to the signal generated by the utilization module,

wherein the reservation parameter relates to the transmission of data from the wireless networking device to at least one other wireless network device by way of a direct communication channel between the wireless networking device and the at least one other wireless network device, and wherein said altering is based on a prior transmission of data along the same direct communication channel.

18. (Original) The wireless networking device of claim 17 wherein the full transmission of data is made with multiple transmissions of packets.

19. (Currently amended) A method of altering the operating characteristics of a wireless network connection associated with a wireless network device, the wireless network device operable to transmit data to another wireless network device under a network protocol that has a reservation, the reservation associated with a reservation parameter, the method comprising:

monitoring the transmission;

determining the utilization of the transmission;

selectively, based on the step of determining, altering the reservation parameter;

and

wherein the full transmission of data occurs with multiple transmissions of packets, wherein the reservation parameter relates to the transmission of data from the wireless network device to at least one other wireless network device by way of a direct communication channel between the wireless network device and the at least one other wireless network device and wherein said altering is based on a prior transmission of data along the same direct communication channel.

1920. (Currently amended) A method for operating a wireless networking device that communicates data under a network protocol, the network protocol including a reservation for a transmission of data to one or more other wireless network devices, the method comprising:

supplying a reservation parameter associated with a particular reservation amount relating to the transmission of data from the wireless networking device to at least one other wireless networking device by way of a direct communication channel between the wireless networking device and the at least one other wireless networking device; and

selectively changing the reservation parameter based on the results of prior transmissions,

wherein said changing is based on a prior transmission of data along the same direct communication channel.

~~20~~21. (Currently amended) The method of claim ~~19~~20, further comprising:

determining if a last transmission reservation was oversufficient; and

the step of selectively changing comprising:

selectively, if the last transmission was oversufficient, decreasing the reservation.

~~21~~22. (Currently amended) The method of claim ~~20~~21, the step of selectively decreasing comprising:

decreasing the reservation by a predefined amount.

~~22~~23. (Currently amended) The method of claim ~~21~~22 wherein the predefined amount is a predefined amount of time,

~~23~~24. (Currently amended) The method of claim ~~21~~22 wherein the predefined amount is associated with a predefined amount of data based on operating characteristics of the networking device.

2425. (Currently amended) The method of claim ~~20~~21, the step of selectively decreasing comprising:

decreasing the reservation by a computed amount.

2526. (Currently amended) The method of claim ~~24~~25 wherein the computed amount is obtained through filtering.

2627. (Currently amended) The method of claim ~~19~~20 further comprising:
prior to the first transmission, supplying a first reservation based on a predefined default value.

2728. (Currently amended) The method of claim ~~19~~20 further comprising:
prior to the first transmission, supplying a first reservation a value based on prior operation.

2829. (Currently amended) The method of claim ~~19~~20, further comprising:
determining if a last transmission reservation was insufficient; and
the step of selectively changing comprising:
selectively, if the last transmission was insufficient, increasing the reservation.

2930. (Currently amended) The method of claim ~~28~~29, the step of selectively increasing comprising:

increasing the reservation by a predefined amount.

~~30~~31. (Currently amended) The method of claim ~~29~~30 wherein the predefined amount is a predefined amount of time

~~31~~32. (Currently amended) The method of claim ~~29~~30 wherein the predefined amount is associated with a predefined amount of data based on operating characteristics of the networking device.

~~32~~33. (Currently amended) The method of claim ~~28~~29, the step of selectively increasing comprising:

increasing the reservation by a computed amount.

~~33~~34. (Currently amended) The method of claim ~~24~~25 wherein the computed amount is obtained through filtering.

~~34~~35. (Currently amended) A wireless networking device operating within a network protocol in which a reservation is made for transmission of data, the wireless networking device comprising:

utilization monitoring means, the utilization monitoring means determining the efficiency characteristics of a transmission, and initiating a signal associated with the determined efficiency; and

means for selectively determining a reservation, communicatively coupled to the utilization monitoring means, that supplies a reservation parameter for making a

reservation of a certain length, the means for selectively determining a reservation operable to alter the reservation parameter in response to the signal generated by the utilization monitoring means,

wherein the reservation parameter relates to the transmission of data from the wireless networking device to at least one other wireless networking device by way of a direct communication channel between the wireless networking device and the at least one other wireless networking device, and wherein said altering is based on a prior transmission of data along the same direct communication channel.

~~3536~~. (Currently amended) The device of claim ~~3435~~, wherein:

the utilization monitoring means comprising:

a means for determining if a last transmission reservation was
oversufficient; and

the means for selectively determining a reservation comprising:

means for decreasing the reservation based upon if the last transmission was
oversufficient

~~3637~~. (Currently amended) The device of claim ~~3536~~, wherein the means for decreasing is operable to decrease the reservation by a predefined amount.

~~3738~~. (Currently amended) The device of claim ~~3637~~ wherein the predefined amount is a predefined amount of time

3839. (Currently amended) The device of claim ~~36~~37 wherein the predefined amount is associated with a predefined amount of data based on operating characteristics of the networking device.

3940. (Currently amended) The device of claim ~~35~~35, the means for decreasing comprising:

means for decreasing the reservation by a computed amount.

4041. (Currently amended) The device of claim ~~39~~40 wherein the computed amount is obtained through filtering.

4142. (Currently amended) The device of claim ~~34~~35 further comprising means for supplying a first reservation, prior to the first transmission, the first reservation based on a predefined default value.

4243. (Currently amended) The device of claim ~~34~~35 further comprising means for supplying a first reservation, prior to the first transmission, the first reservation based on a value determined by previous operation of the device.

4344. (Currently amended) The device of claim ~~34~~35, wherein:
the utilization monitoring means comprising:
a means for determining if a last transmission reservation was insufficient;
and

the means for selectively determining a reservation comprising:

means for increasing the reservation based upon if the last transmission was insufficient

4445. (Currently amended) The device of claim 4344, wherein the means for increasing is operable to increase the reservation by a predefined amount.

4546. (Currently amended) The device of claim 4445 wherein the predefined amount is a predefined amount of time

4647. (Currently amended) The device of claim 4445 wherein the predefined amount is associated with a predefined amount of data based on operating characteristics of the networking device.

4748. (Currently amended) The device of claim 4344, the means for increasing comprising:

means for increasing the reservation by a computed amount.

4849. (Currently amended) The device of claim 4748 wherein the computed amount is obtained through filtering.

4950. (Currently amended) A wireless networking device operating within a network protocol in which a reservation is made for transmission of data, the wireless

networking device communicating ~~to~~ with two or more other wireless networking devices, the wireless networking device comprising:

a utilization module, the utilization module determining the efficiency characteristics of a transmission, and initiating a signal associated with the determined efficiency;

a dynamic reservation determination module, communicatively coupled to the utilization module, that supplies a reservation parameter for making a reservation of a certain length, the dynamic reservation module operable to alter the reservation parameter in response to the signal generated by the utilization module;

the wireless networking device using and selectively altering a first dynamic reservation parameter when communicating with a first other wireless networking device; and

the wireless networking device using and selectively altering a second dynamic reservation parameter when communicating with a second other wireless networking device;

wherein the reservation parameters relate to transmission of data from the wireless networking device to at least one of the two or more wireless networking devices by way of a direct communication channel between the wireless networking device and the at least one of the two or more wireless networking devices, and wherein the selective altering is based on a prior transmission of data along the same direct communication channel.

5051. (Currently amended) A wireless networking device operating with a network protocol in which a reservation is made for transmission of data to one or more other wireless network devices, the wireless networking device comprising:

a reservation determination module, the module supplying a reservation parameter associated with a reservation of a certain length; and

the reservation parameter associated with the transmission of data in multiple packets within the associated reservation,

the reservation parameter relating to transmission of data from the wireless networking device to at least one of the one or more other wireless networking devices by way of a direct communication channel between the wireless networking device and the one or more other wireless networking devices and being alterable based on a prior transmission of data along the same direct communication channel.

5452. (Currently amended) A wireless networking device operating with a network protocol in which a reservation is made for transmission of a dataset to one or more other wireless network devices, the wireless networking device comprising:

a transmitter that transmits the dataset to the one or more other wireless network devices, the transmitted dataset being transmitted in multiple groupings of data;

a data queue, communicatively coupled to the transmitter, that holds the data to be transmitted;

a reservation determination module, the module supplying a reservation parameter associated with a reservation of a length, the length associated with an estimated length to transmit the entire multiple groupings of data;

wherein the reservation parameter is operable to supply the reservation parameter prior to all data in the dataset being present in the data queue, and wherein the reservation parameter relates to transmission of data from the wireless networking device to at least one of the one or more other wireless networking devices by way of a direct communication channel between the wireless networking device and the one or more

other wireless networking devices and is alterable based on a prior transmission of data along the same direct transmission channel.

5253. (Currently amended) A wireless networking device operating with a network protocol in which a reservation is made for transmission of a dataset to one or more other wireless network devices, the wireless networking device comprising:

a transmitter that transmits the dataset to the one or more other wireless network devices, the transmitted dataset being transmitted in multiple groupings of data;

a data queue, communicatively coupled to the transmitter, that holds the data to be transmitted;

a reservation determination module, the module supplying a reservation parameter associated with a reservation of a length, the length associated with an estimated length to transmit the entire multiple groupings of data;

wherein the reservation parameter corresponds to a dataset size larger than can be store at one time in the data queue, wherein the reservation parameter relates to transmission of data from the wireless networking device to at least one of the one or more other wireless networking devices by way of a direct communication channel between the wireless networking device and the one or more other wireless networking devices, and wherein the reservation parameter is alterable based on a prior transmission of data along the same direct communication channle.